

Nafufill® GM2

(Formerly Known as Zentrifix GM2)

Coarse concrete repair mortar



Product Properties

- Polymer modified, hydraulic coarse repair mortar
- One-component
- Hand application by trowel or float
- Spray application by wet-spray techniques
- Complies with concrete Technology Requirements for Building Construction
- Suitable for thickness of 6 to 50 mm
- Excellent adhesion
- Stable on walls and overhead repair areas
- Ideal application and hardening times
- Improved sulphate resistance and low chloride Ion penetration

Areas of Application

- Coarse repair of small and large areas in concrete, particularly in building construction
- Repair of big patches and honeycombs
- Repair concrete spalls

Application Notes

General

Nafufill® GM2 is a single component ready to use coarse repair mortar, which can be applied by various means explained below. **Nafufill® GM2** is based on high quality cements, well graded sand and other polymer raw materials. It develops high quality mortar bond coat with **Nafufill KMH** has to be applied with good consistency and provides good adhesion with the surface.

A special fibre – reinforced grade can be provided.

Advantages

Nafufill® GM2 has excellent adhesion to the substrates and is suitable for overhead as well as vertical wall applications.

Instructions for use

Surface Preparation

The surface must be clean and free from all loose particles, dust oil and other contaminations. A substrate pull-off strength > 1.5 N/mm² is required. The substrate must have sufficient roughness, e.g. sound aggregates should be visible. Before application of **Nafufill® GM2**, it is recommended that a bonding coat of **Nafufill KMH**, be brushed into the pre-wetted surface. The coarse repair mortar, **Nafufill® GM2** should then be applied "fresh – on – fresh" to the bond coat by trowel or float.

Mixing ratio

Nafufill® GM2 is a single-component mortar, which is mixed with water. The dry mortar is slowly added to the water and mixed thoroughly until a homogenous, lump-free mortar is achieved.

Mixing ratio for the Mortar is 100 p.b.w. **Nafufill® GM2** + 13 to 14 p.b.w. water. Hence, for a 30 Kg sack of **Nafufill® GM2** approximately 3.90 to 4.20 litres of water is required. As with all cementitious products, the quantity of water added may be varied slightly. **Nafufill® GM2** can either be applied by hand with floats, trowels

or wet-spray techniques. It is suitable for layer thickness of 6 to 50 mm. If the thickness is greater than 25 mm, then the mortar should be applied in two layers. The second layer should be applied when the first layer has stiffened sufficiently, but is still green. If dry, the first coat should be slightly- prewetted and a

Working time is approximately 45 minutes at +20°C and 50% relative humidity. Hardened material should not be re-mixed or applied. Also, hardening material should not be over worked, otherwise cracks may occur. **Nafufill® GM2** should not be applied at temperatures below +5°C (air and substrate). The temperature should not be allowed to fall below +5°C during curing.

Care must be taken to ensure that **Nafufill® GM2** is suitably protected to prevent it from drying out too rapidly, especially from the effects of direct sun and wind. As with all cementitious materials, rain or similar rough weather conditions may cause slight surface blemishes. **Curing** is recommended with **Emcoril AC**.

Before application of further coatings loose particles must be



Further Instructions / Precautions

Step 1: Cleaning reinforcement

Step 2: Corrosion Protection with Nafufill KMH

Step 3: Bond Coat with Nafufill KMH

Step 4: Application of Coarse Repair Mortar: Nafufill® GM2



Technical Data For Nafufill® GM2

Characteristic	Unit	Value	Comments
Minimum application temperature	°C	+8°C	
Mixing ratio	Parts by weight	100: 12.5-13.5	Nafufill®GM2: water
Added Water Per 30 Kg bag	Litre	3.75-4.05	
Pot life	Minutes	30	
Consumption	G / m ² / mm	2000	
Maximum Grain Size	mm	4.75	
Untapped Bulk Density of Powder	Kg/L	1.6	
Fresh Mortar Density	Kg/L	2.000	EN 1015-6
Maximum Layer thickness	mm	50	
Flow	mm	170	EN 13395-1
Compressive Strength (50mm Moulds)	N/mm ²	After 24 Hrs=8 N/mm ² After 3 days=15N/mm ² After 7 days=20N/mm ² After 28 Days=25N/mm ²	ASTM C 109
Setting Time			

Product Characteristics for Nafufill® GM2

Type of Product	Coarse graded concrete repair mortar
Form	Powder
Colour	Grey
Shelf Life	12 months from date of Manufacture
Delivery	30 kg sacks
Storage	In Unopened Packaging. Protect from Rain, Direct Sunlight, Heat and Frost
Disposal	Empty packs completely and dispose off carefully to protect our Environment

Note: The information on this data sheet is based on our experiences and correct to the best of our knowledge. It is, however, not binding. It has to be adjusted to the individual structure, application purpose and especially to local conditions. Our data refers to the accepted engineering rules, which have to be observed during application. This provided we are liable for the correctness of this data within the scope of our terms and conditions of sale-delivery-and-service. Recommendations of our employees, which may differ from the data contained in our information sheets, are only binding if given in written form. The accepted engineering rules must be observed at all times. E. & O.E.

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